

## Complex wounds just became easier with NATROX®

NATROX

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DESIGNED

FOR PATIENTS

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SIMPLE

DESIGN

HEALS

## THE ROLE OF OXYGEN IN WOUND HEALING



## THE AIR WE BREATHE

Rate and quality of blood vessels affected by oxygen levels, supplemental oxygen accelerates blood vessel growth<sup>2</sup>.

Nearly all cellular processes use energy in the form of adenosine triphosphate ATP.

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Low  $O_2 \times Glucose = 2 \text{ ATP}$ High  $O_2 \times Glucose = 36 \text{ ATP}^3$ 

Oxygen is essential during the **neutrophil** or **macrophage respiratory burst**, **producing** reactive oxygen species (ROS) which are extremely important in **microbial and debris clearance**<sup>4</sup>.





### **Promotion** of ROS

essential for the signalling processes of **growth factors** and processes such as **angiogenesis** and **extracellular matrix formation**<sup>5,6</sup>.



Collagen acts as the structural scaffold of skin. **Higher oxygen concentrations** have been found to **increase** both the amount of **collagen production** and its **tensile strength**<sup>7</sup>.



Delivering low flow oxygen to a diabetic wound has been shown to **increase the rate of wound closure,** by as much as **69%**<sup>8</sup>.

## **INTRODUCING NATROX®** OXYGEN WOUND THERAPY SYSTEM







### Active therapy

outside a specialist

## Intuitive

minimal product training needed



## No harmful

chemicals. gases or by-products





NATROX<sup>®</sup> delivers pure humidified oxygen

## **WOUND HYPOXIA** AND THE ISSUES

Wound hypoxia acts as the initial stimulant to begin the process of wound healing, chronic hypoxia cannot sustain the process<sup>11</sup>.



If oxygen demand is greater than the **supply,** then this results in Compromised Healing<sup>12</sup>

Supply



Demand





## **HIGH RISK PATIENTS** AND WOUNDS

### The NATROX<sup>®</sup> system is intended for complex, slow-healing or non-healing wounds.

Most wounds will show some degree of hypoxia, mainly due to the tissue damage incurred.

Some patient groups are particularly at risk:



DIABETES



ARTERIAL DISEASE











# What to expect with

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